Uncompromising ultra-portable design

POWERFUL MOBILE PERFORMANCE

Enjoy the powerful performance of Intel® Core™ 2 Duo P9600-P8600 processors (2.66GHz[1] -2.40GHz[1]) with Intel® Centrino® 2 processor technology – the latest chipset from Intel®.

The VAIO® Z notebook comes pre-installed with Genuine Microsoft® Windows Vista® with Service Pack 1.

Uncompromising elegance weaved into a 3.4 lb[7] go-anywhere package.

A 13.1"[6] widescreen display with XBRITE-DuraView™ LCD technology and LED backlight for a brighter, crisper, tougher display.

WIRELESS FREEDOM

Built-in Wireless-N technology offers a boost in wireless connection speed and range[3] .

Integrated Mobile Broadband technology[18] for blazing-fast wireless access beyond LAN networks and hotspots.

Extend the reach of your Z notebook with Stereo A2DP Bluetooth® technology[16] that is ideal for advanced wireless communication and streaming uncompromised CD-quality stereo music to Bluetooth® technology enabled speakers or headphones.

ENDLESS FEATURES

. An HDMI™ output[17] delivers video and audio to external sources via a single cable so you can enjoy HD entertainment on your compatible big screen TV without a myriad of extra cables (HDMI™ cable sold separately).

An integrated Trusted Platform Module (TPM) TCG Ver.1.2 compliant chip enhances security by allowing you to control access on a specific client/user basis.

G-Sensor™ Shock Protection technology makes your data even less vulnerable to loss or damage. When the built-in 3D acceleration sensor detects a risky movement, the HDD-head will lock up to secure its position and help protect the disc from scratching.

ENVIRONMENTALLY ENGINEERED FEATURES

Energy-efficient 25 watt Intel® Centrino® 2 processors offer all the performance at lower power consumption.

By using a mercury-free backlit LED display, the VAIO® Z notebook keeps one less chemical out of both your home and the landfills.

Built tough for business, the VAIO® Z notebook offers the portability of a 3.4 lbs[7] (with standard battery) form factor with the performance of a larger computer. Encased in durable carbon fiber and featuring scratch-resistant XBRITE-DuraView™ LCD technology, the Z notebook is designed to withstand the rigors of the road.

VGN-Z690 Configure-to-Order

VAIO® Z Series Notebook PC

Specifications

General

Computer Type: Notebook

Type of Use: Ultra-portable

Action Buttons: S1, S2, WLAN / Bluetooth® on / off, Performace Select

Pointing Device: Electro-static touch pad

Security: Biometric Fingerprint Sensor
Trusted Platform Module (TPM) TCG Ver.1.2 compliant

Hardware

Keyboard: QWERTY, 82 keys with 2.5mm stroke and 19.05mm pitch

Camera: Built-in MOTION EYE® camera and microphone

Processor

Type: Intel® Core™ 2 Duo Processor P9600 (Configuration 1), Intel® Core™ 2 Duo Processor P8700 (Configuration 2), Intel® Core™ 2 Duo Processor P8600 (Configuration 3),

Speed: 2.66GHz[1] (Configuration 1), 2.53GHz[1] (Configuration 2), 2.40GHz[1] (Configuration 3),

Front Side Bus Speed: 1066MHz

L2 Cache: 6MB (Configuration 1) or 3MB (Configurations 2-3)

Technology: Intel® Centrino® 2 processor technology

Memory

Type: DDR3

Installed: 4GB[33] PC3-8500 (2GBx2)

Maximum: 4GB[35]

Speed: 1066MHz

Hard Drive

Capacity: 320GB[2]

Speed: 7200rpm

Interface: Serial ATA

ImpactProtection: G-Sensor™ ShockProtection - Hard Disk Drive Protection

Optical Drive

BD-ROM Read: 2x max.

Blu-ray Disc™ Support: Optional Read[20] / Write[21] (BD-R / BD-RE / BR-ROM)

CD Support: Read / Write (CD-R / -RW)

DVD Support: Read / Write (DVD±R / ±RW / ±R DL / -RAM)

BD-R DL Read / Write: 2x max.

BD-R Read / Write: 2x max.

BD-RE DL Read / Write: 2x max.

BD-RE Read / Write: 2x max.

Expansion Slots

Multimedia Card Reader: One Memory Stick PRO™ media slot with MagicGate® functionality
One ExpressCard® / 34 slot
One Secure Digital (SD memory card) media slot

Solid State Drive

Capacity: 256GB[2] (128GB[2] x2) RAID 0 or 128GB[2] (64GB[2] x2) RAID 0

Interface: Serial ATA

Audio

Sound System: Intel® High Definition Audio

Display

Screen Size: 13.1"[6]

Resolution: 1600 x 900

XBRITE-DuraView™ Technology: Yes

Back Light Technology: LED

Graphics

Processor: NVIDIA® GeForce® 9300M GS GPU with Total Available Graphics Memory of 1500MB (max.) and Mobile Intel® Graphics Media Accelerator 4500MHD with Intel® Clear Video Technology with Total Available Graphics Memory: 1300MB (max.)[10]

Video RAM: 256MB of dedicated video RAM

Technology: Hybrid Graphics System

Chipset: Mobile Intel® GM45 Express Chipset

Max. External Resolution via VGA: 2048x1536

Max. External Display Resolution via HDMI™ : 1920x1080

Max. External Resolution via DVI: 1920x1200

Inputs and Outputs

Modem Jack: 1

Microphone Input: 1

Port Replicator Connector(s): 1 (Bottom)

USB Port(s): 2 (2.0 compliant)

VGA Output(s): 1

DC-In: 1

i.LINK® Connection: 1 (4pin) i.LINK® connector (IEEE 1394)[9]

Headphone Output(s): 1

Ethernet Connection (s): 1

HDMI™ Output: 1[17]

Networking / Modem

Ethernet Protocol: 10Base-T / 100Base-TX / 1000Base-T (Gigabit)

Ethernet Speed: Fast Ethernet (RJ-45)

Modem Type: Integrated V.92 / V.90 Modem (RJ-11)

Wireless LAN: Intel® WiFi Link 5100AGN (802.11a / b / g / n)[3]

Bluetooth® Technology: Integrated Stereo A2DP Bluetooth® Technology[26]

Mobile Broadband: Verizon Wireless Mobile Broadband Built-in[18]

Power

Battery Type: Standard Capacity Lithium-ion Battery (VGP-BPS12) or Large Capacity Battery (VGP-BPL12)

Estimated Battery Life: 2.0 to 6.0 hours[11] Standard Capacity Battery
3.0 to 9.0 hours[11] Large Capacity Battery

Power Requirements: 100W + 10%

Software

Operating System: Genuine Microsoft® Windows Vista® Ultimate 64-bit / XP Pro Downgrade or Windows Vista® Home Premium 64-bit or Windows Vista® Business 32-bit / XP Pro Downgrade
*XP Pro Downgrade not included with Blu-Ray or SSD Drive with Raid Technology options

Supplied Software: Microsoft® Works SE 9.0 w / 60-Day Trial Version of Microsoft® Office Home and Student 2007[14] (with Vista® Home Premium or Vista® Ultimate Configuration) or Microsoft® Office Small Business 2007[14] (with Vista® Business Configuration)

VAIO® Multimedia Suite: VAIO® Startup Assistant
Click to Disc Editor - Import, Edit, Burn
VAIO® Movie Story - Simple Movie Creation
VAIO® MusicBox - Music by Mood
VAIO® Media plus - Multimedia Streaming Software
*Please access VAIO® Help and Support from your PC for a complete list of software applications and trials.

Anti-Virus & Recovery Software: Microsoft® Windows Live™ OneCare™ Trial Version[5]

Service and Warranty Information

Telephone Support: 1 year toll-free technical telephone assistance, available 24 / 7[13]

Online and Email Support: Support available from http://www.esupport.sony.com/EN/VAIO

Limited Warranty Term: 1 year limited warranty[12]. See actual warranty for details.

International Service: 1 year international service plan available. Registration required. See www.sony.com/IRSP for details.

Environmental Information

RoHS®: Compliant
For more information: www.sony.com/vaioeco

Dimensions

Weight: 3.42 lbs[7] (with standard capacity battery)

Measurements: 12.4"(W) x 1.0-1.3"(H) x 8.3"(D)[7,8]

Supplied Accessories

Standard Lithium-ion battery (VGP-BPS12) or Large Capacity Battery (VGP-BPL12)

AC Adapter (VGP-AC19V26)

Power Cable

Optional Accessories

Stick AC Adapter (VGP-AC19V21)

Port Replicator (VGP-PRZ1)

Additional Standard Capacity Battery (VGP-BPS12)

Large Capacity Battery (VGP-BPL12)

VAIO® Protection Case (VGP-CKZ1)

USB Optical Mouse (VGP-UMS20 / B)

Bluetooth® Laser Mouse[34] (VGP-BMS33 / B)

Neoprene Case (VGP-AMB10)

Color: Shadow Border

1. GHz denotes microprocessor internal clock speed; other factors may affect application performance. CPU speed will be reduced under certain operating conditions.
2. GB means one billion bytes when referring to hard drive capacity. Accessible capacity may vary. A portion of hard disk space is reserved as a recovery partition.
3. Requires 802.11n compatible access point. Some functionality may require Internet services, which may require a fee.
4. Broadband Internet service required along with third party services which may require a subscription or other service fee.
5. Microsoft® Windows Live™ OneCare™ Trial Version - This trial software will work for ninety (90) days after you first use it. You will not be able to use the software if you do not activate it as described the first time you use the software. You can activate the software by Internet: Internet service charges may apply. If you want to keep using the software after the 90-day trial period, you must convert to the perpetual version. You can covert online by following the conversion instructions presented during setup and paying the required fees.
6. Viewable area measured diagonally.
7. Non-metric weights and measures are approximate and may vary.
8. Measured at the narrowest point
9. i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connector. All products with an i.LINK connector may not communicate with each other.
10. Total Available Graphics Memory refers to the new Windows Vista® classification of graphics memory, which varies depending on the operating condition, version of device driver and system memory size.
11. Actual battery life may vary based on product settings, usage patterns and environmental conditions. Battery life will be shorter with models equipped with Instant Mode features.
12. See actual limited warranty for details. For a copy of Sony's warranty, please visit www.sony.com/pcsupport, call toll-free 888-476-6972 (888-4SONYPC) or write to Sony Electronics, 12451 Gateway Boulevard, Fort Myers, FL 33913.
13. For certain third party software applications, Sony provides first level phone support. Additional telephone support may be available from the applicable 3rd party vendor. Availability and schedule for any such support is determined by the aplicable software vendor.
14. 60-Day Trial Version of Microsoft® Office 2007 - This trial software will work only for 60 days after you first use it. You will not be able to use the software if you dont activate it as described the first time you use the software. You can activate the software by Internet: Internet service charges may apply. If you want to keep using the software after the 60-day trial period, you must convert to the perpetual version. You can convert online by following the conversion instgructions presented during setup and paying the required fees.
15. A portion of the system memory over 3GB may not be available to a 32-bit operating system.
16. Interoperability and compatibility among Bluetooth® devices vary.
17. Requires high definition-capable display with HDMI™ connector. Image quality will vary.
18. Subscription with a third party carrier is required. Service activation and other fees apply. Terms & Conditions and additional restrictions apply.
19. Compatibility and performance in a 64-bit environment may vary. Check with the manufacturer of your software or accessory to ensure you have the latest updates.
20. Certain circumstances may limit / prevent Blu-ray Disc™ media playback. For optimal performance, download all updates from http://esupport.sony.com/EN/DRIVERS.
21. Video recording to Blu-ray Disc™ media is done in MPEG2 and AVC formats only.

Computer Interface: For this product there are a multitude of varying software packages and add-on hardware options. This product is not manufactured to work with any specific software, and Sony does not and cannot make any warranty or representation with respect to the performance of this product with any particular software packages and / or non-Sony add-on hardware options except those mentioned here. Sony hereby disclaims any representations or warranties that this product is compatible with any combination of non-Sony products you may choose to connect to it. While Sony representatives or Sony authorized dealers may be able to assist you and may make recommendations, they are NOT authorized to vary or waive this disclaimer. Purchasers must determine for themselves the suitability and compatibility of the hardware and software in each and every particular instance. Software titles pre-installed on the Sony computer are subject to change without notice. Preinstalled software may not be identical to retail versions or have all documentation. Features and specifications are subject to change without notice.
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